

REMARKS

Kindly enter this Preliminary Amendment before first action on the merits. By this Preliminary Amendment, Applicants have amended the specification to correct minor typographical errors. These amendments introduce no new matter.

Respectfully submitted,

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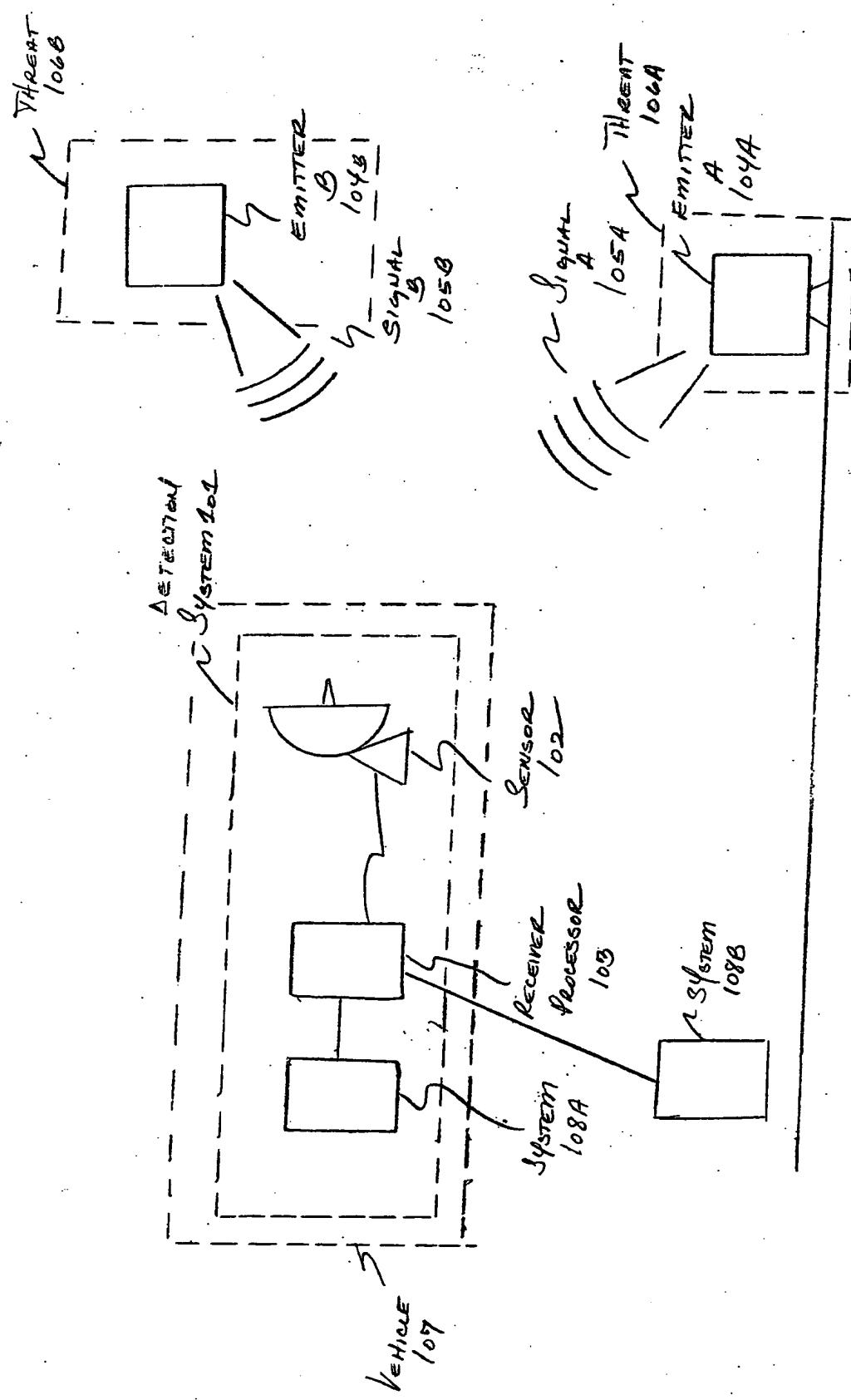


Figure 1

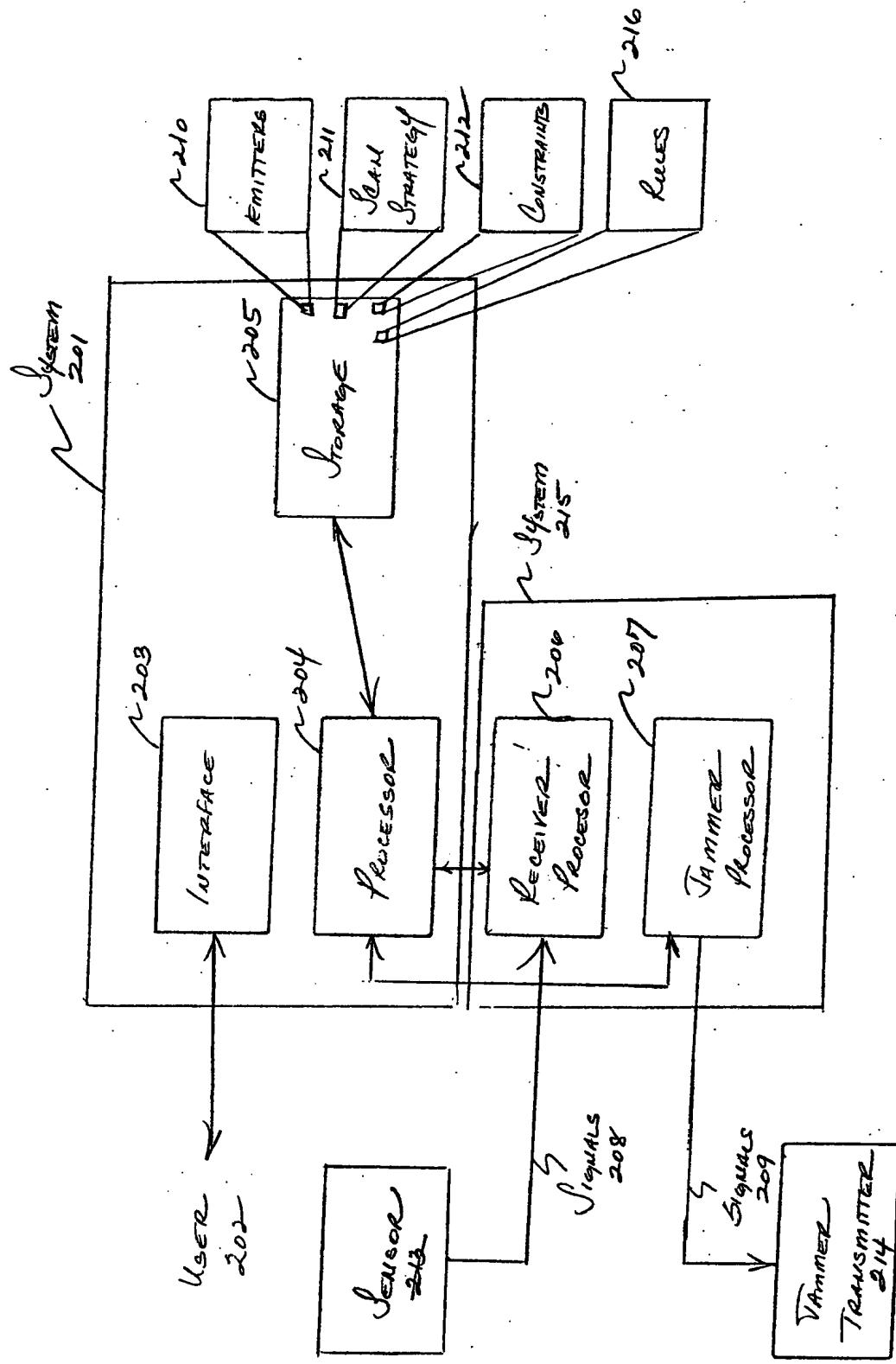


Figure 2

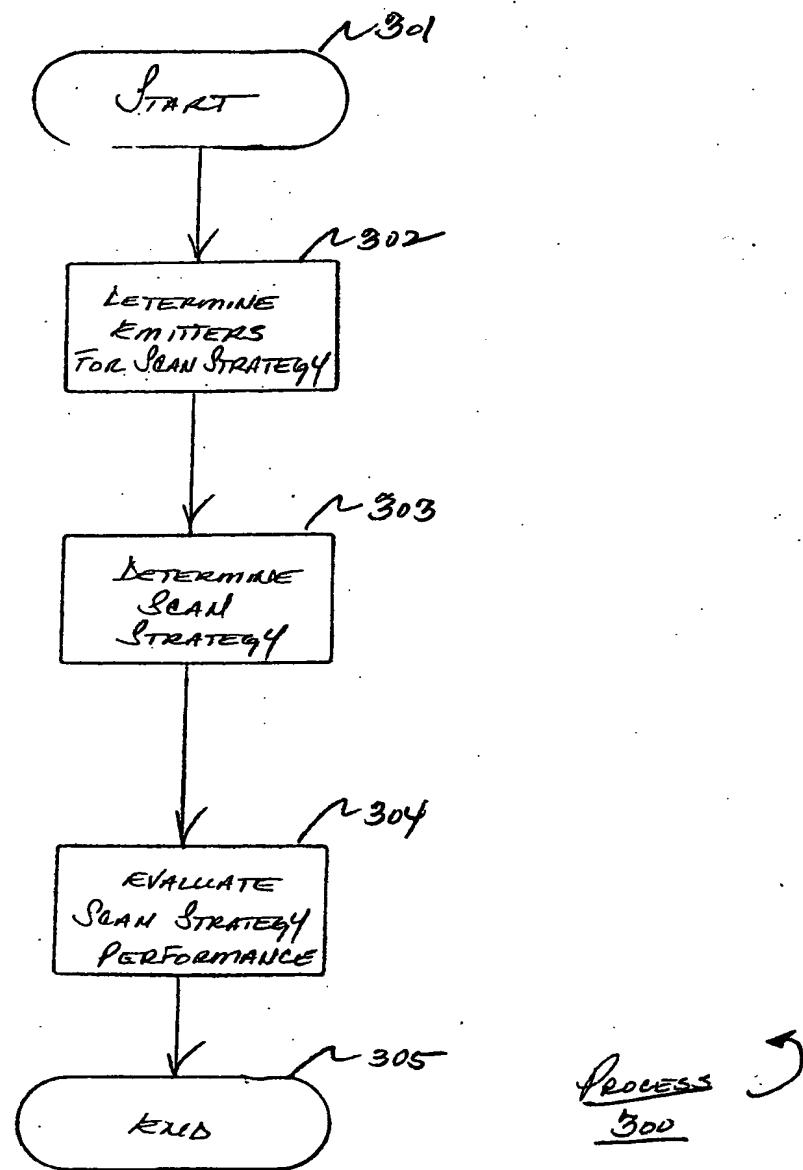


Figure 3

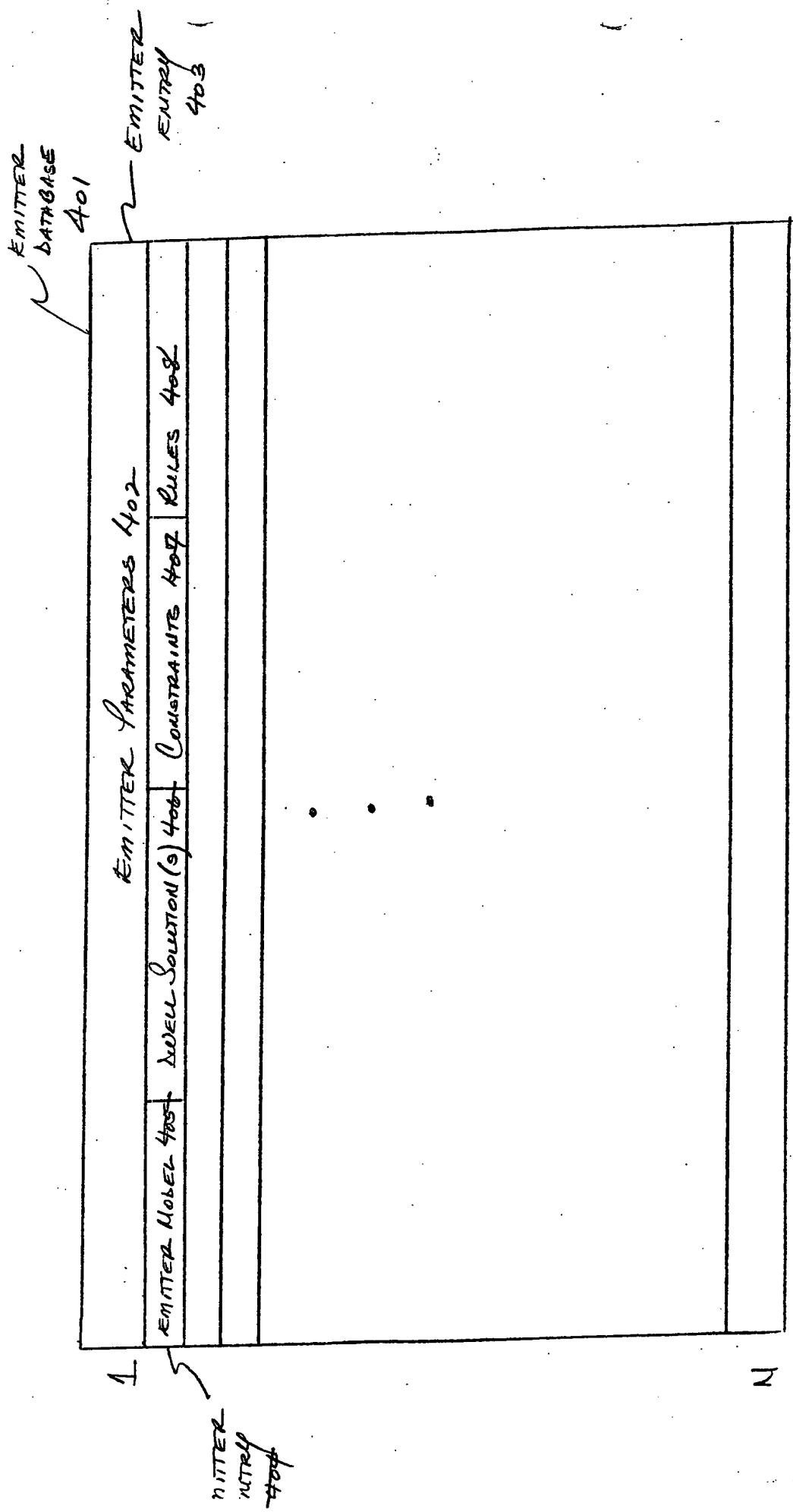


Figure 4

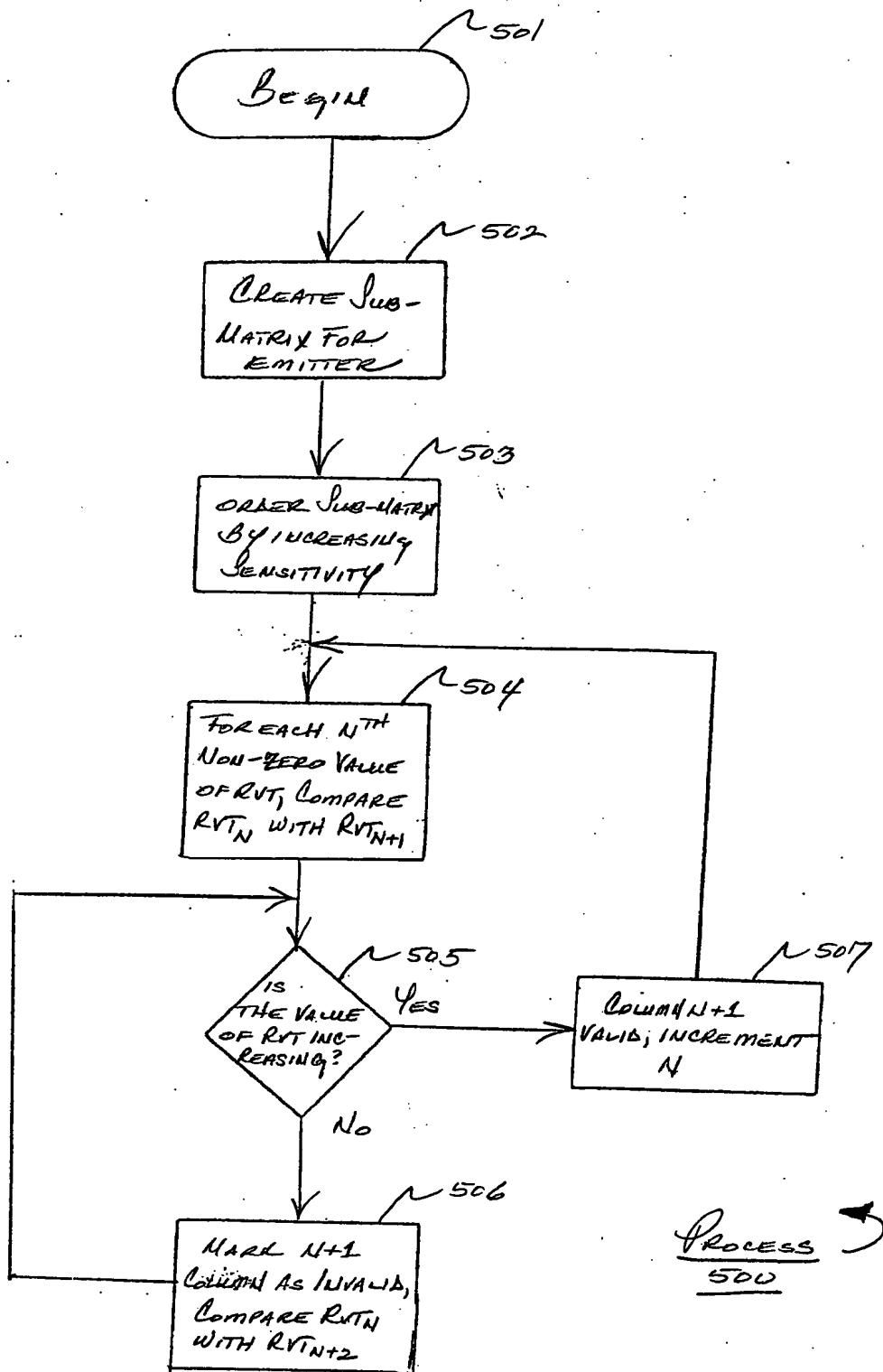


FIGURE 5

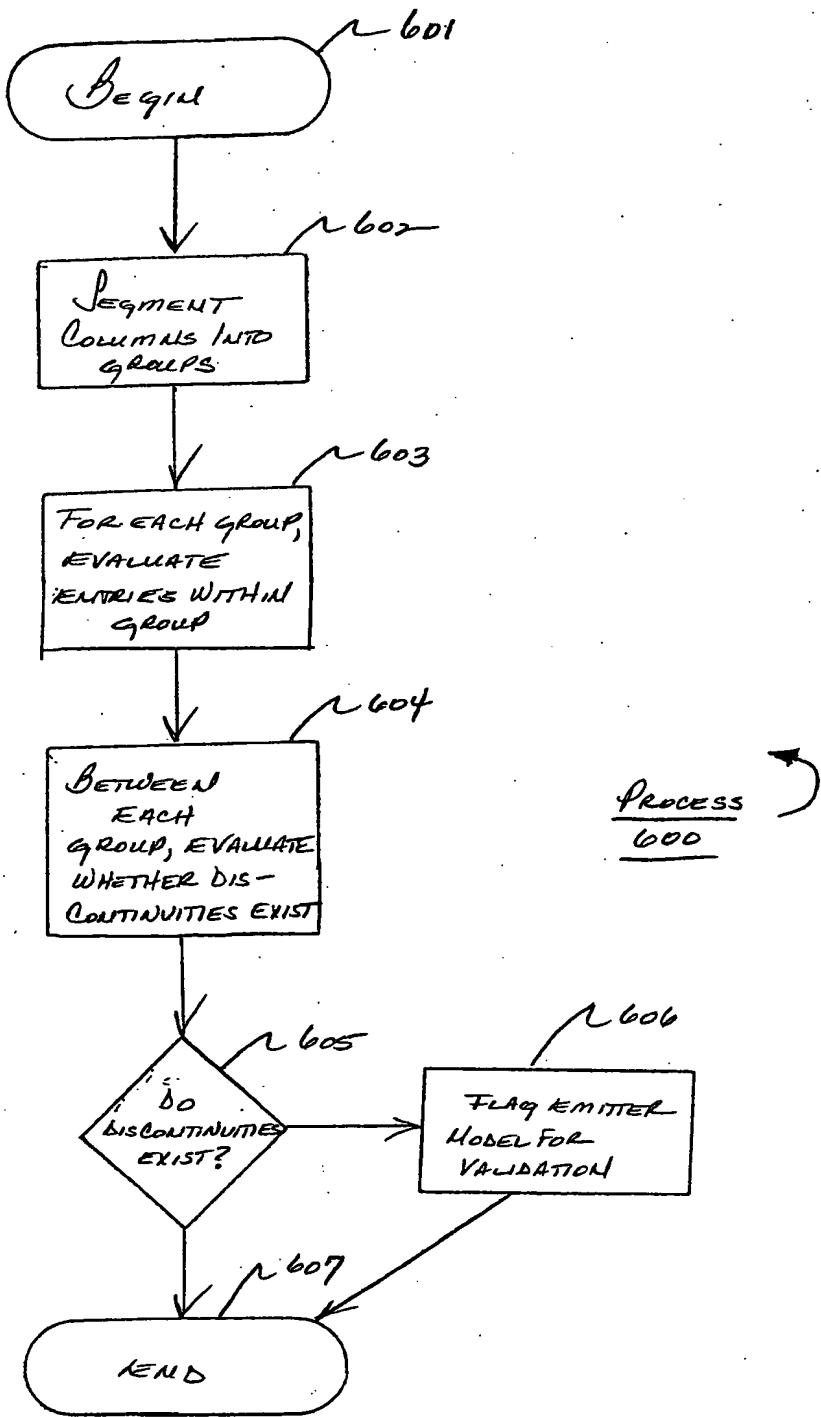


Figure 6

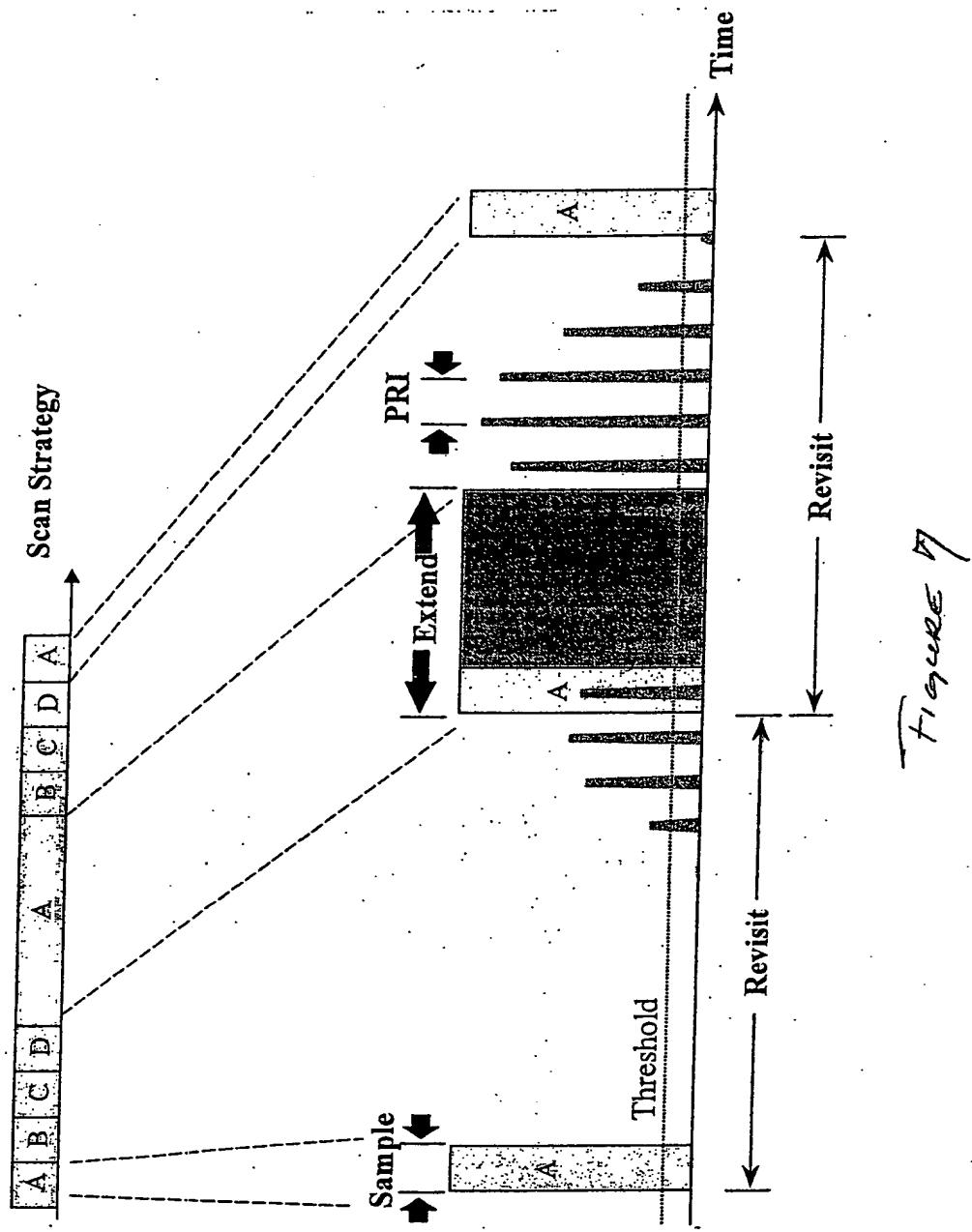


Figure 7

Figure 8a

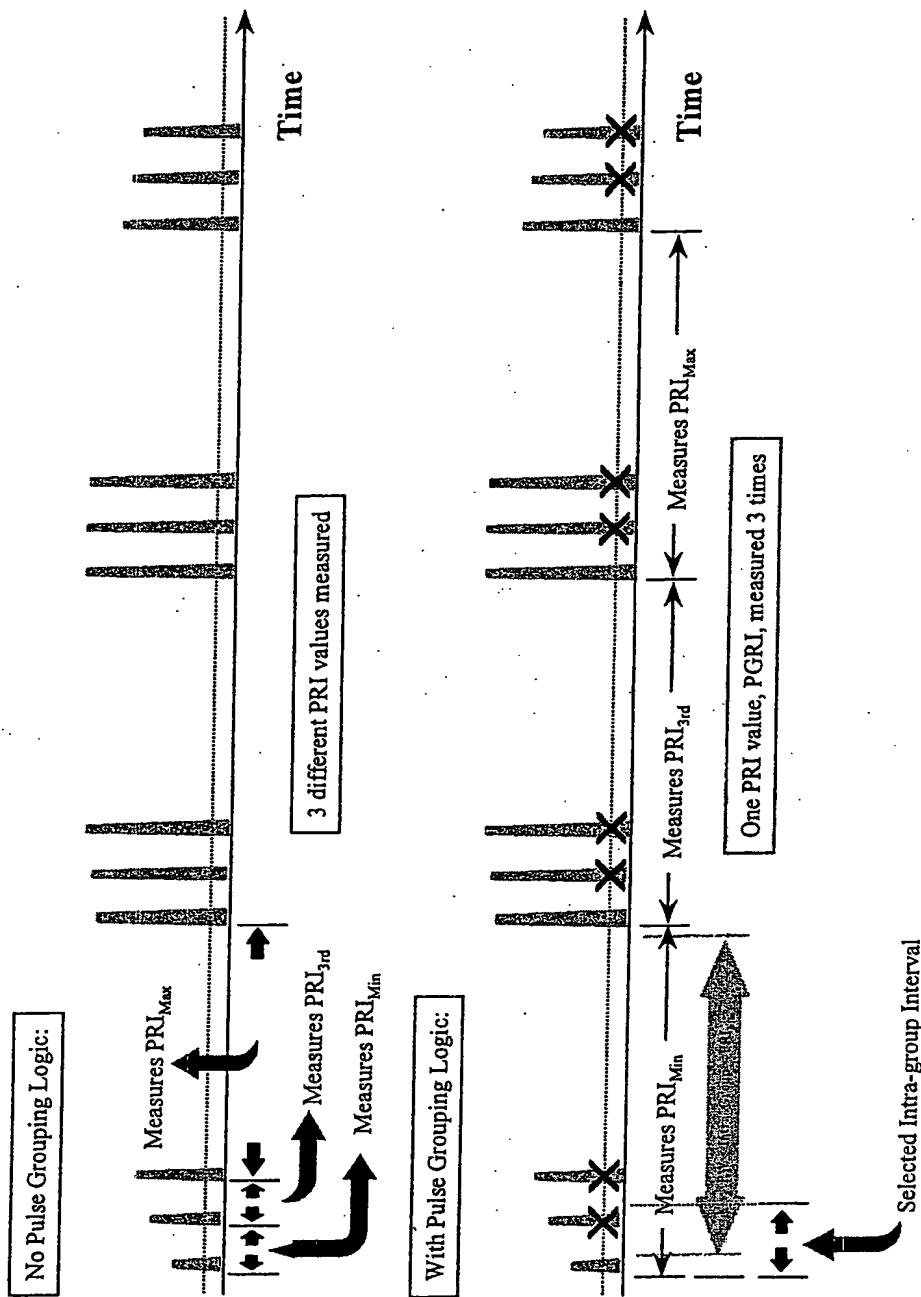


Figure 8b

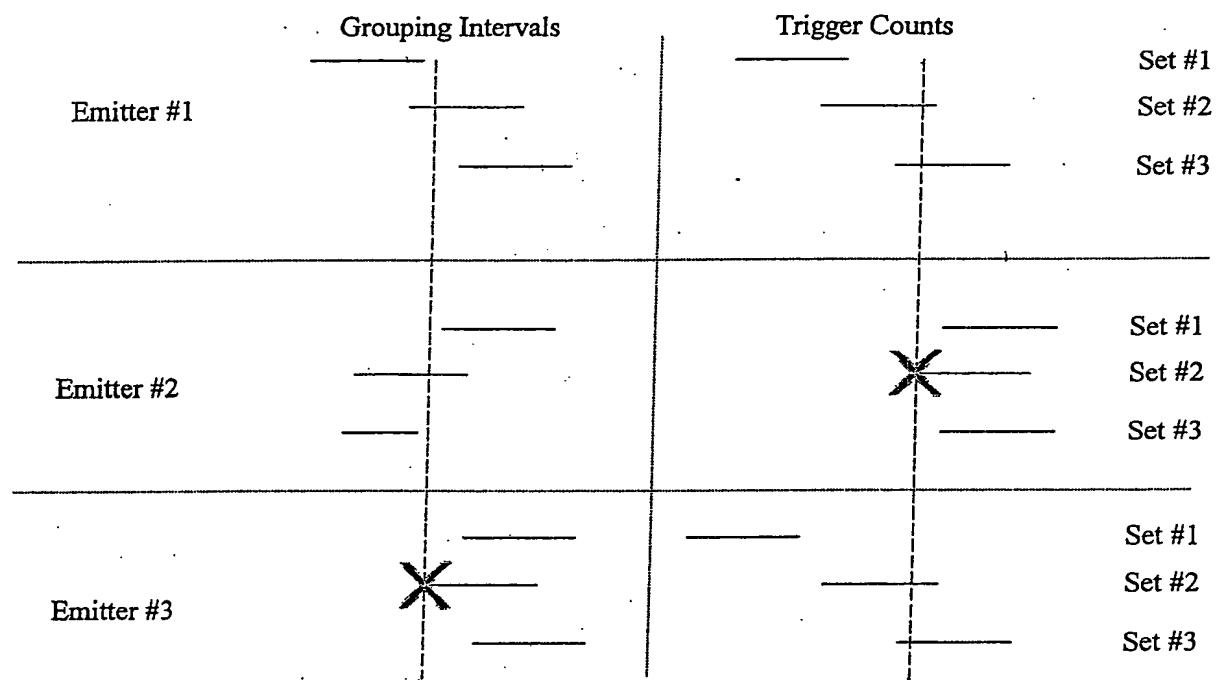
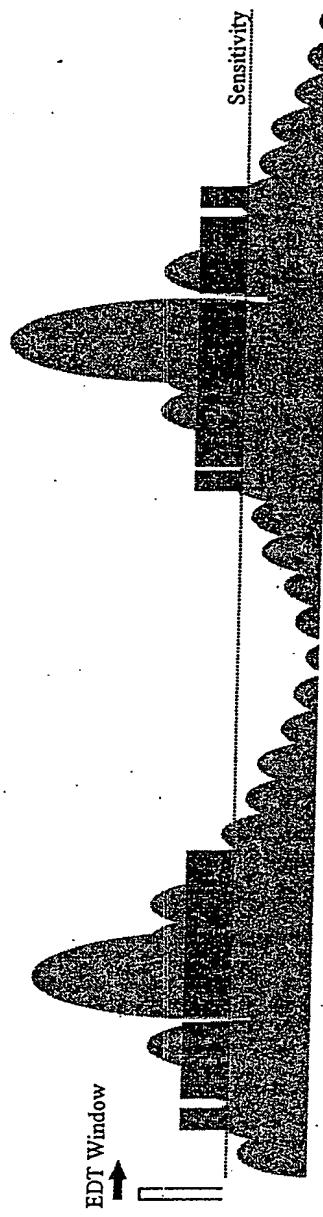


Figure 9

Figure
104



Discrete Illuminations (TIBS)

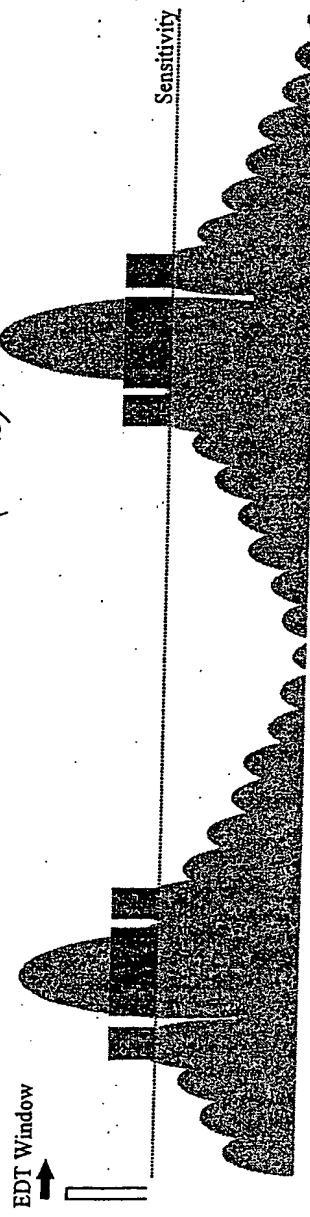
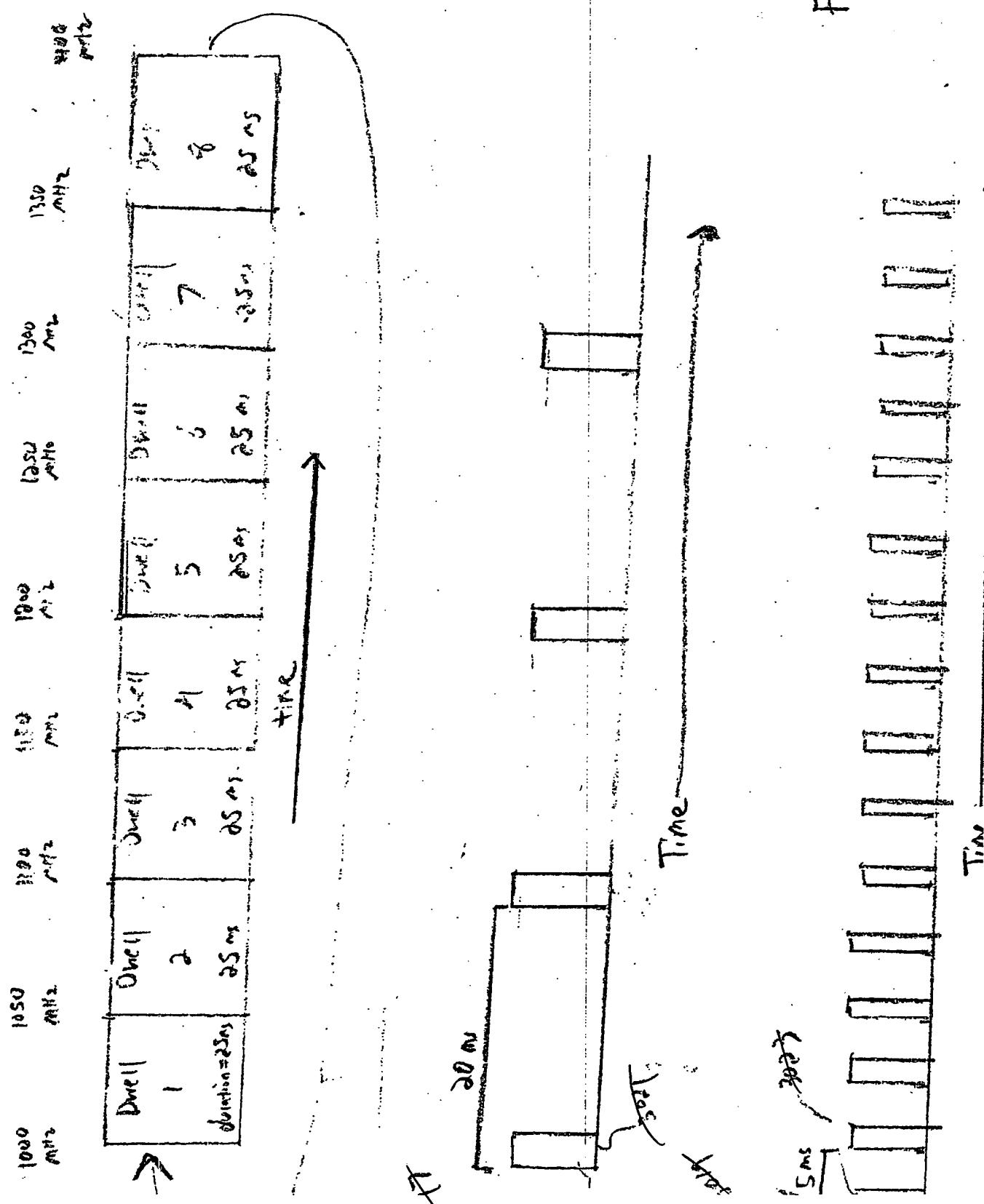


Figure
108

Figure 11



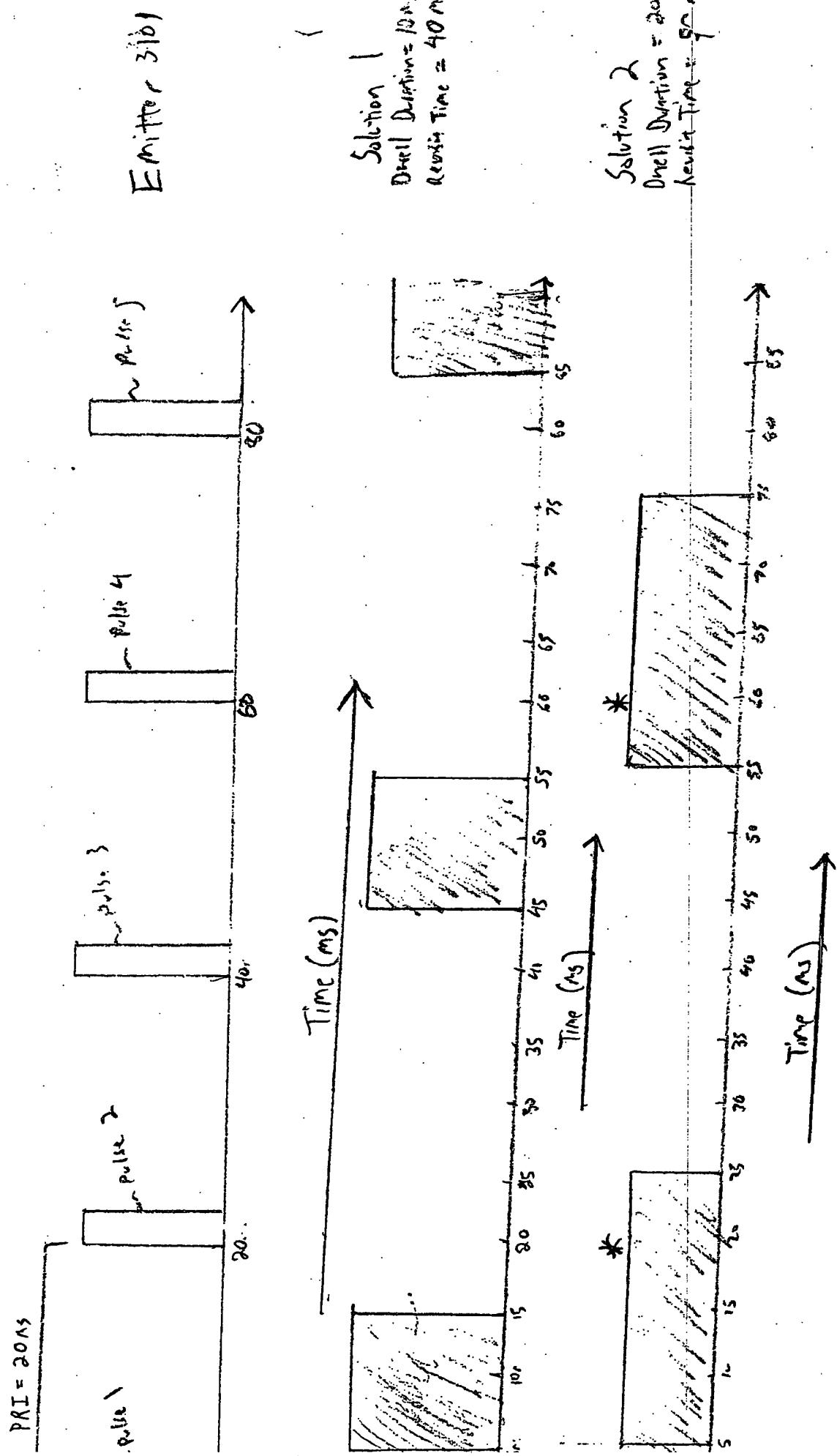


Figure 19

Figure 13

4000

Emitter Name	Spreading Rate 250 mHz, 15 mHz, 1 mHz	RF Power 30 mW, 15 mW, 1 mW	RF Spur MHz (MHz)	MT ms (ms)
E1	100 ns	650 ns	1000	1300 3
E2	180 ns	780 ns	1220	1350 5
E3	110 ns	330 ns	1510	1910 2
E4	130 ns	390 ns	1730	1860 4

Dwell 1								
DD _{max} = 5								
RVT _{max} = 100								

$$\text{Cost} = \frac{5}{100} = .05$$

Warp	1080	1060	1040	1020	1000	1180	1160	1140	1200	1220	1240	1250
Dwell 1	DD _{max}											
	3	3	3	3	3	3	3	3	5	5	5	5
DD _{max}	3	3	3	3	3	3	3	3	5	5	5	5
RVT _{max}	650	650	650	650	650	650	650	650	650	650	650	650
Cost	3/650	3/650	3/650	3/650	3/650	3/650	3/650	3/650	5/650	5/650	5/650	5/650

$$\frac{3}{650} + \frac{3}{650} + \frac{5}{650} + \frac{5}{650} + \frac{5}{650} + \frac{5}{650} = \frac{31}{650} \approx .048$$

Solution 2

Solution 1

Figure 14A

1510	1540	1570	1600	1630	1660	1690	1720	1750	1780
Dwell 1	Dwell 2	Dwell 3	Dwell 4	Dwell 5	Dwell 6	Dwell 7	Dwell 8	Dwell 9	Dwell 10
DD _{max}	DD _{max}	DD _{max}	DD _{max}	DD _{max}	DD _{max}	DD _{max}	DD _{max}	DD _{max}	DD _{max}
2	2	2	2	2	2	2	2	2	2
RV _{Train}	RV _{Train}	RV _{Train}	RV _{Train}	RV _{Train}	RV _{Train}	RV _{Train}	RV _{Train}	RV _{Train}	RV _{Train}
330ms	330ms	330ms	330ms	330ms	330ms	330ms	330ms	330ms	330ms
Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost
$\frac{4}{330} + \frac{2}{330} = \frac{32}{330} = .09$									

Solution 1

$$\begin{aligned} DD_{max} &= 4 \text{ ms} \\ RV_{Train} &= 330 \text{ ms} \\ Cost &= \frac{4}{330} = .012 \end{aligned}$$

1510	1540	1570	1600	1630	1660	1690	1720	1750	1780
Dwell 1	Dwell 2	Dwell 3	Dwell 4	Dwell 5	Dwell 6	Dwell 7	Dwell 8	Dwell 9	Dwell 10
DD _{max}	DD _{max}	DD _{max}	DD _{max}	DD _{max}	DD _{max}	DD _{max}	DD _{max}	DD _{max}	DD _{max}
2	2	2	2	2	2	2	2	2	2
RV _{Train}	RV _{Train}	RV _{Train}	RV _{Train}	RV _{Train}	RV _{Train}	RV _{Train}	RV _{Train}	RV _{Train}	RV _{Train}
330ms	330ms	330ms	330ms	330ms	330ms	330ms	330ms	330ms	330ms
Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost	Cost
$\frac{4}{330} + \frac{2}{330} = \frac{32}{330} = .09$									

Solution 2

Figure 14B

Figure 15

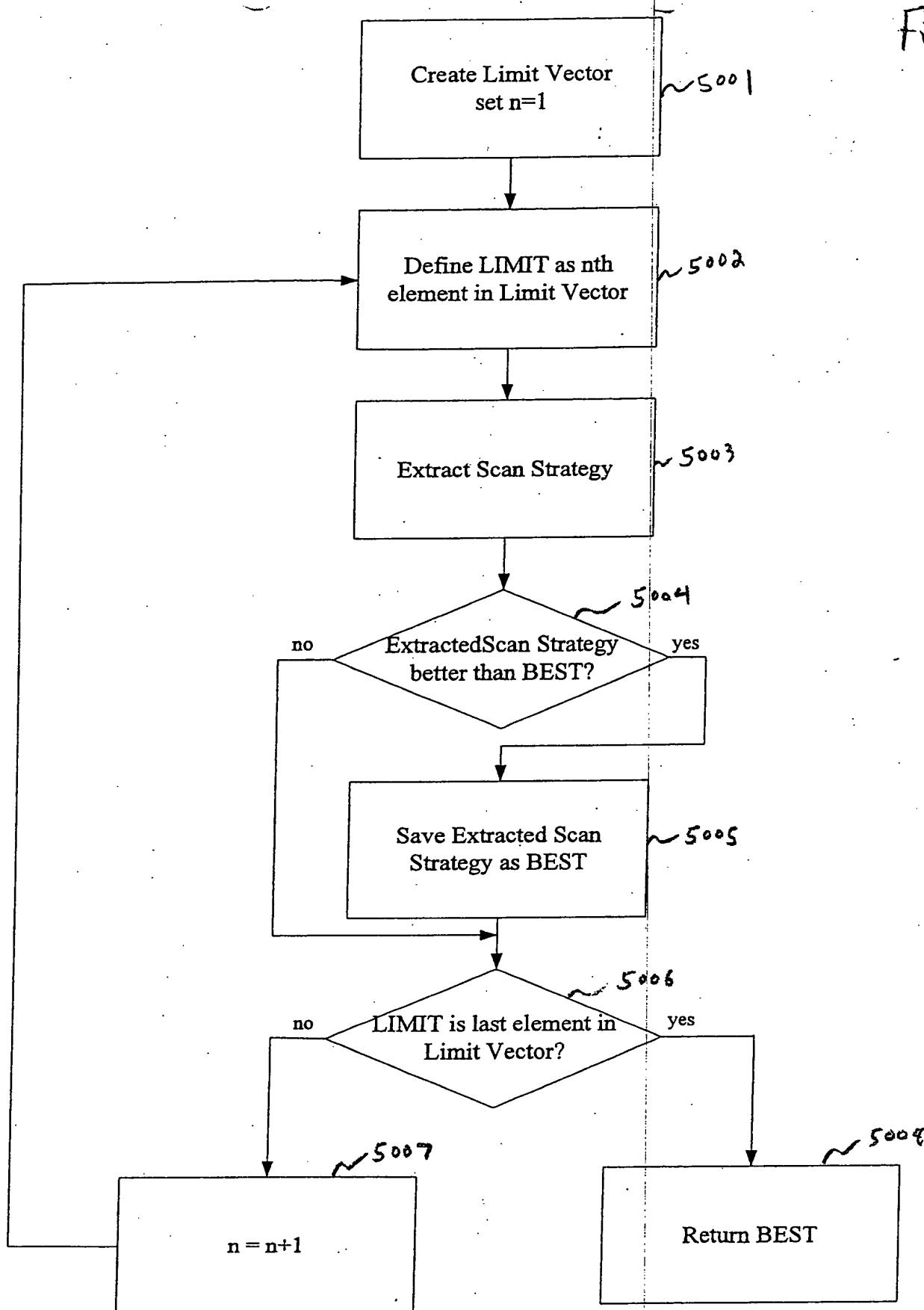
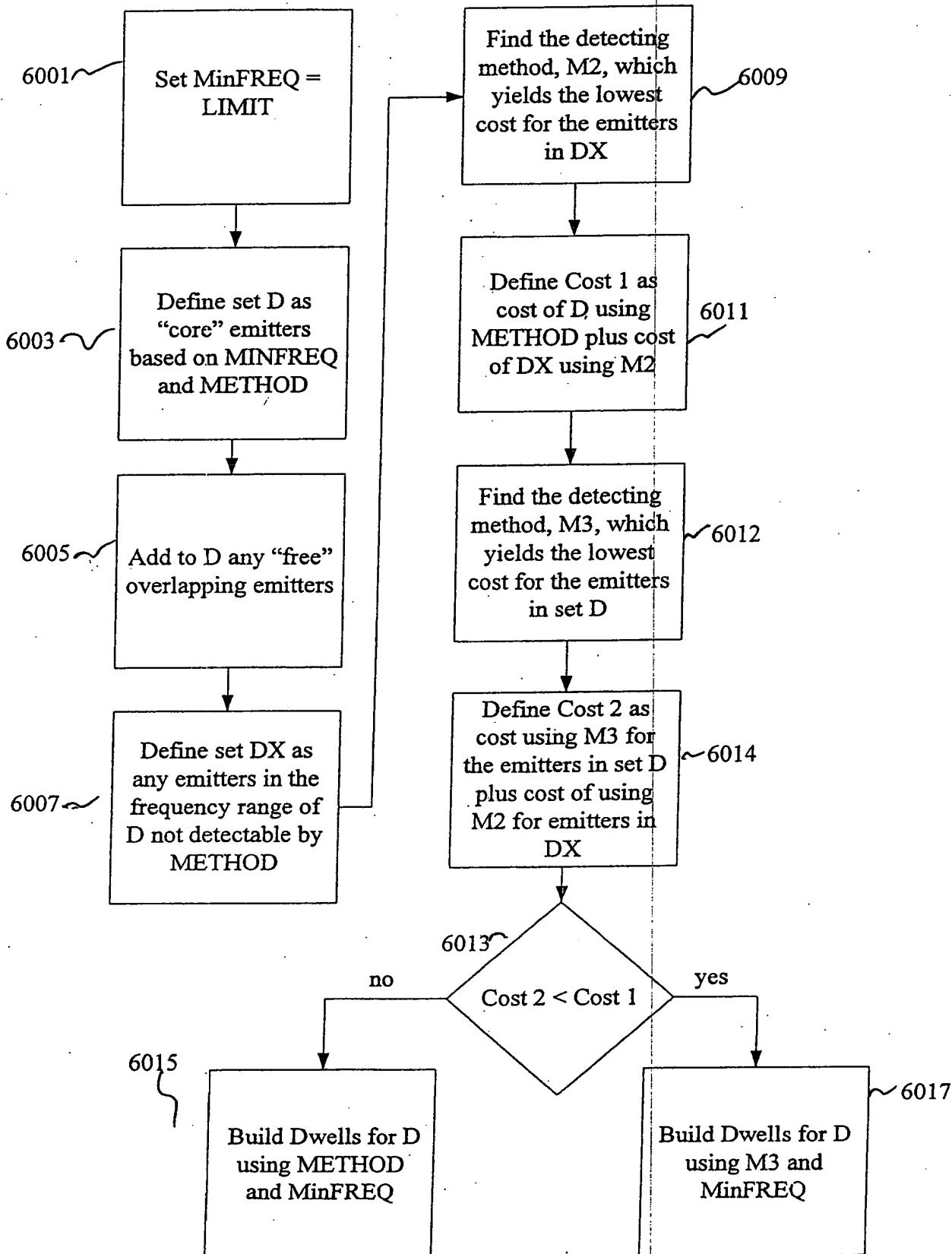


Figure 16



Name	RF Min	RF Max
E1	1100	1200
E2	1150	1250

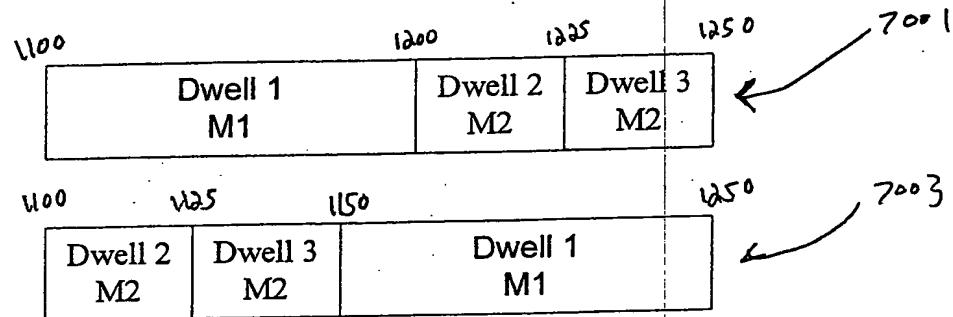


Figure 17

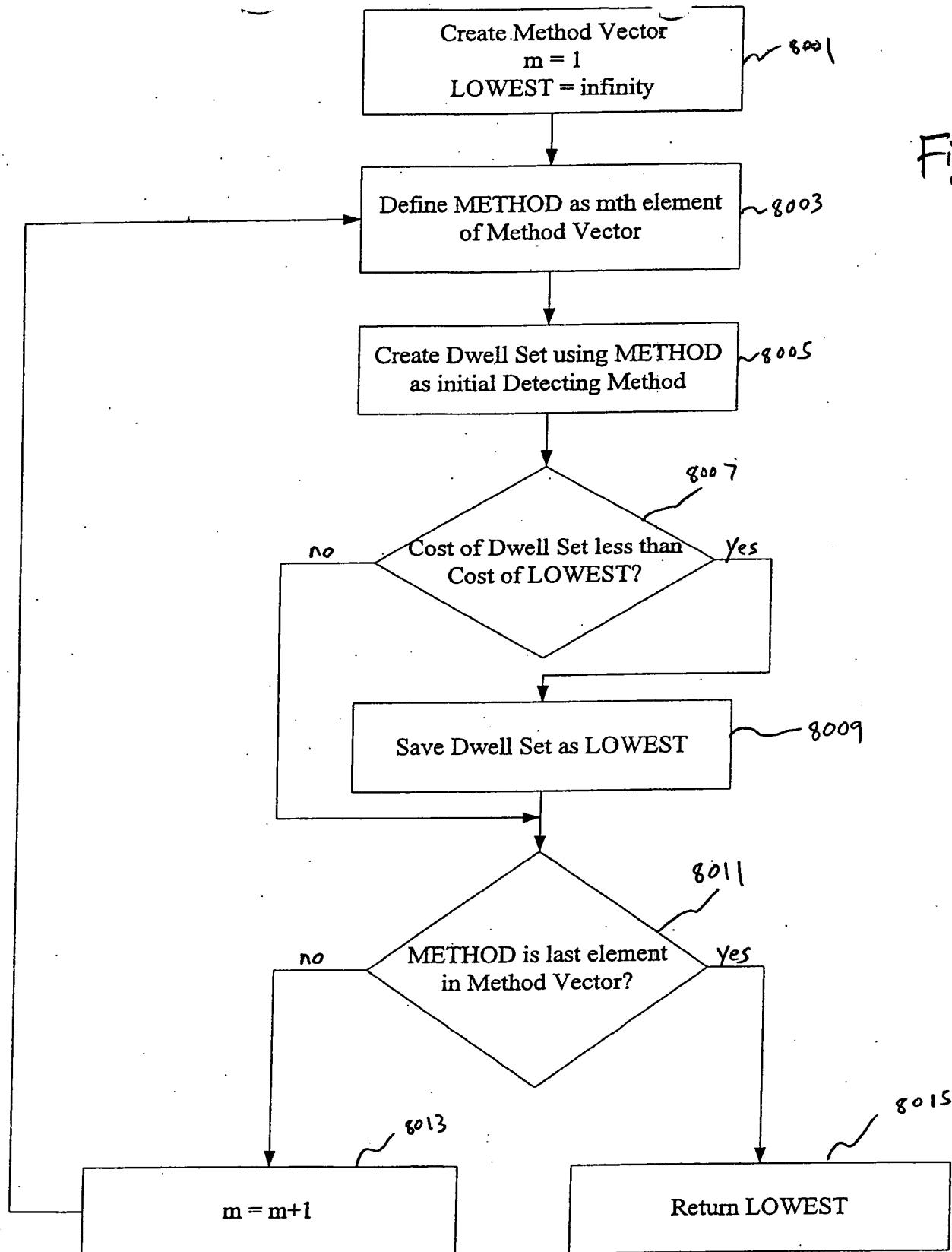


Figure 11

Emitter	Dwell Duration (ms)	Revisit Time (ms)
Emitter 1	1	500
Emitter 2	2	1200

Figure 19

Emitter	Dwell Duration (ms)	Revisit Time (ms)	Cost
Emitter 1	1	500	.002
Emitter 2	5	1000	.005

Figure 20

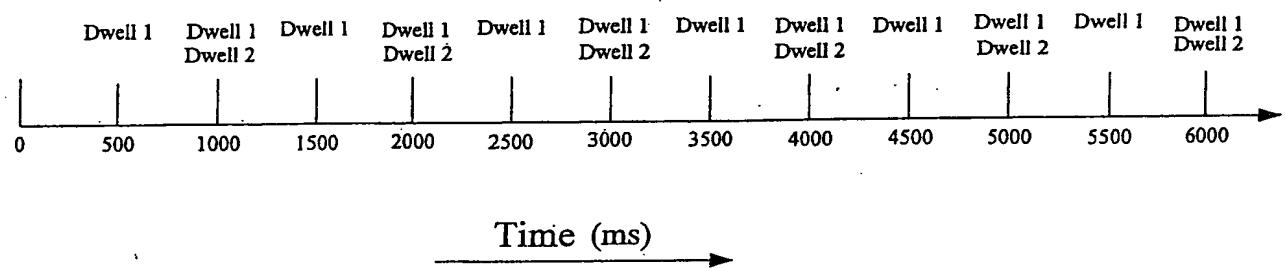


Figure 21

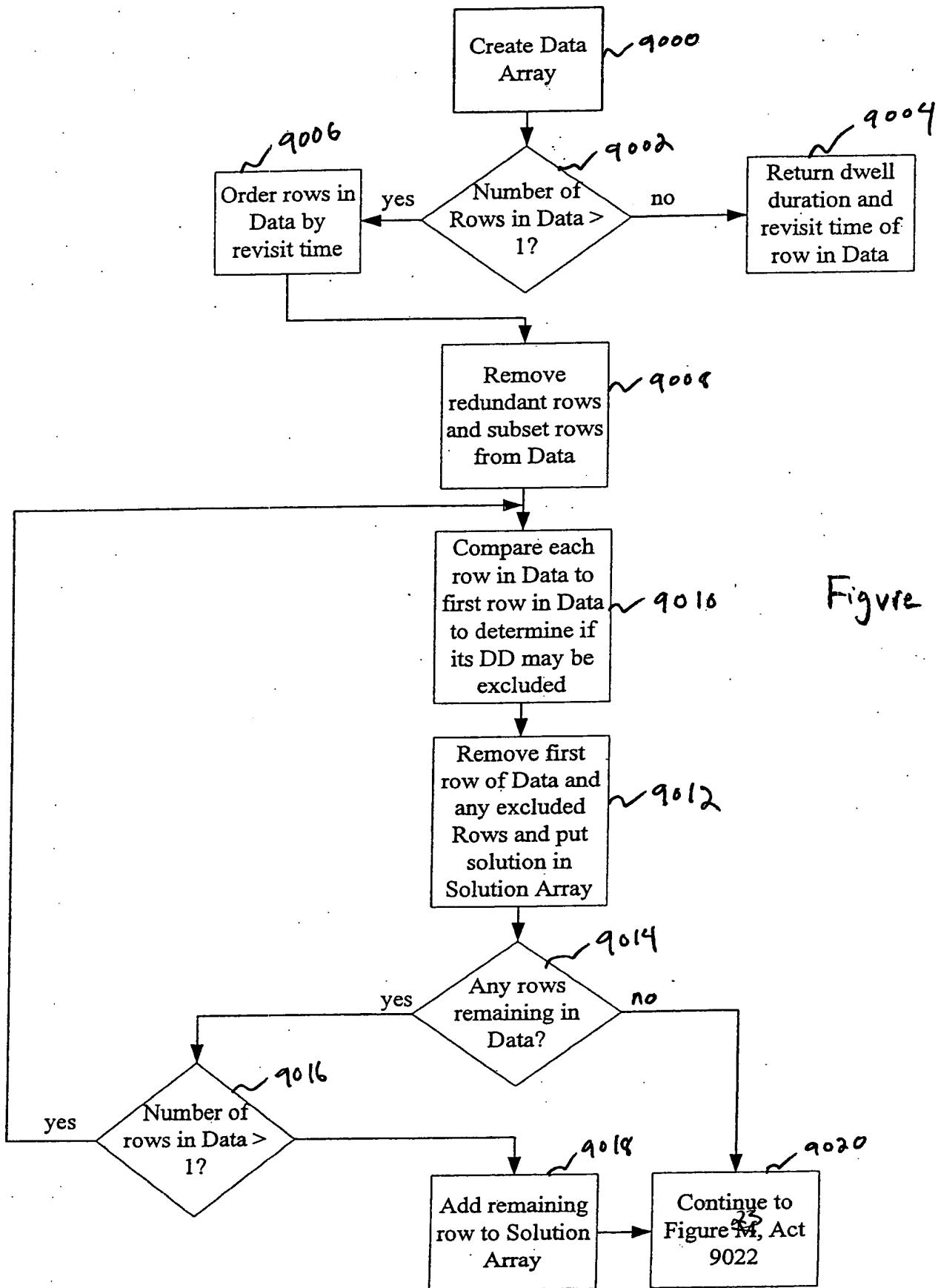


Figure 22

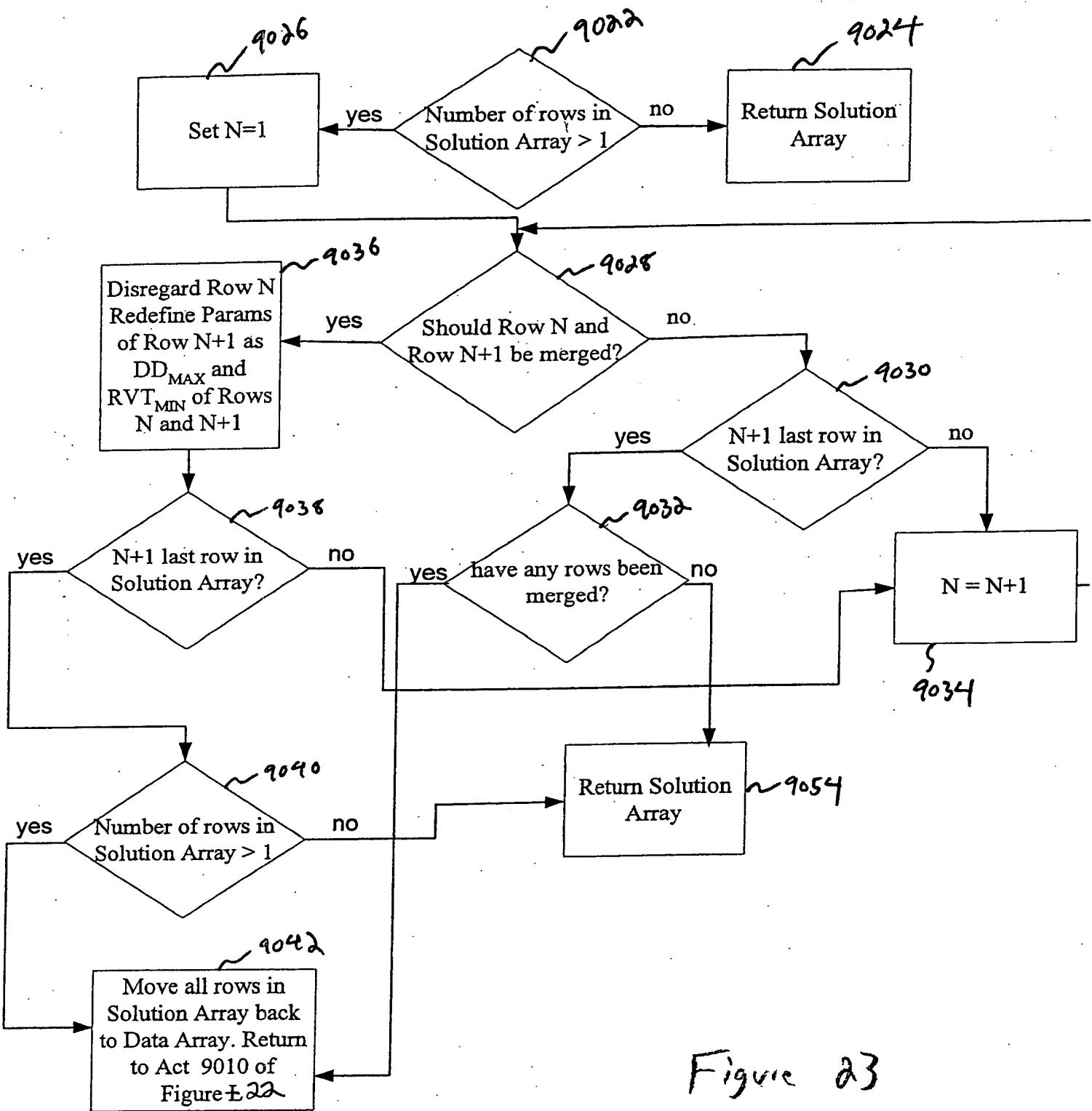


Figure 23

9044

Data		
MDT	EDT	RVT
3.05	17	2868
3	19	2000
3	19	2000
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000

Figure 24A

9044

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000
3	19	2000
3	19	2000
3.05	17	2868

Figure 24B

9044

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
3	19	2000
3.05	17	2868

Figure 24C

9044

Data		
MDT	EDT	RVT
2	9	700
2.3	11	800

Solution		
MDT	EDT	RVT
1	19	500

Figure 24D

9044

Data		
MDT	EDT	RVT
1	19	500
2	11	700

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24E

9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24F

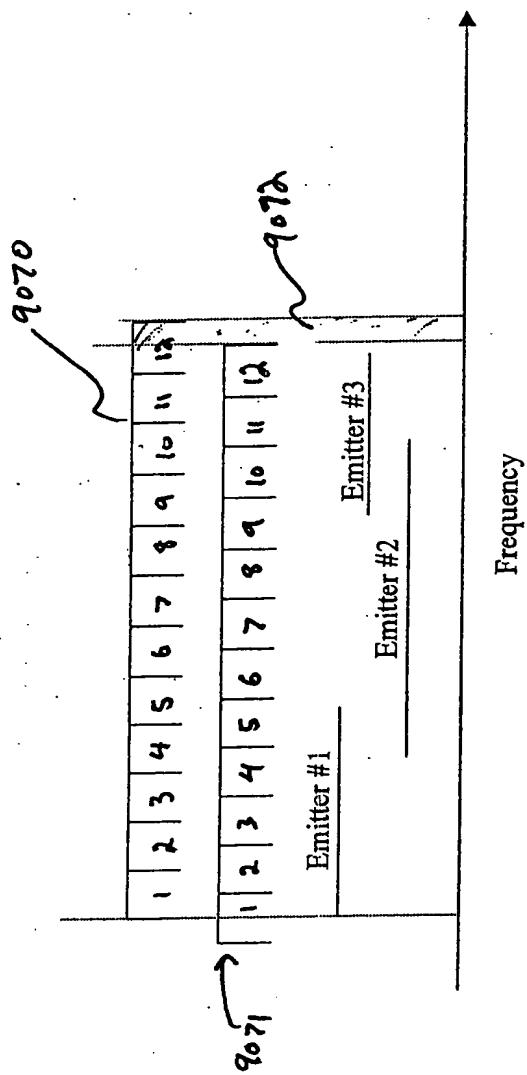
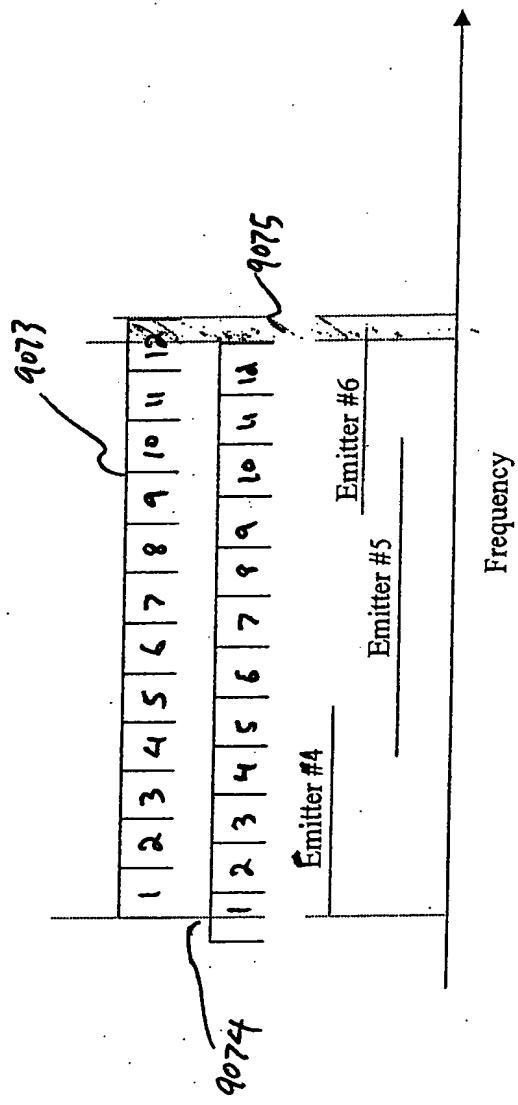


Figure 1

Figure 26



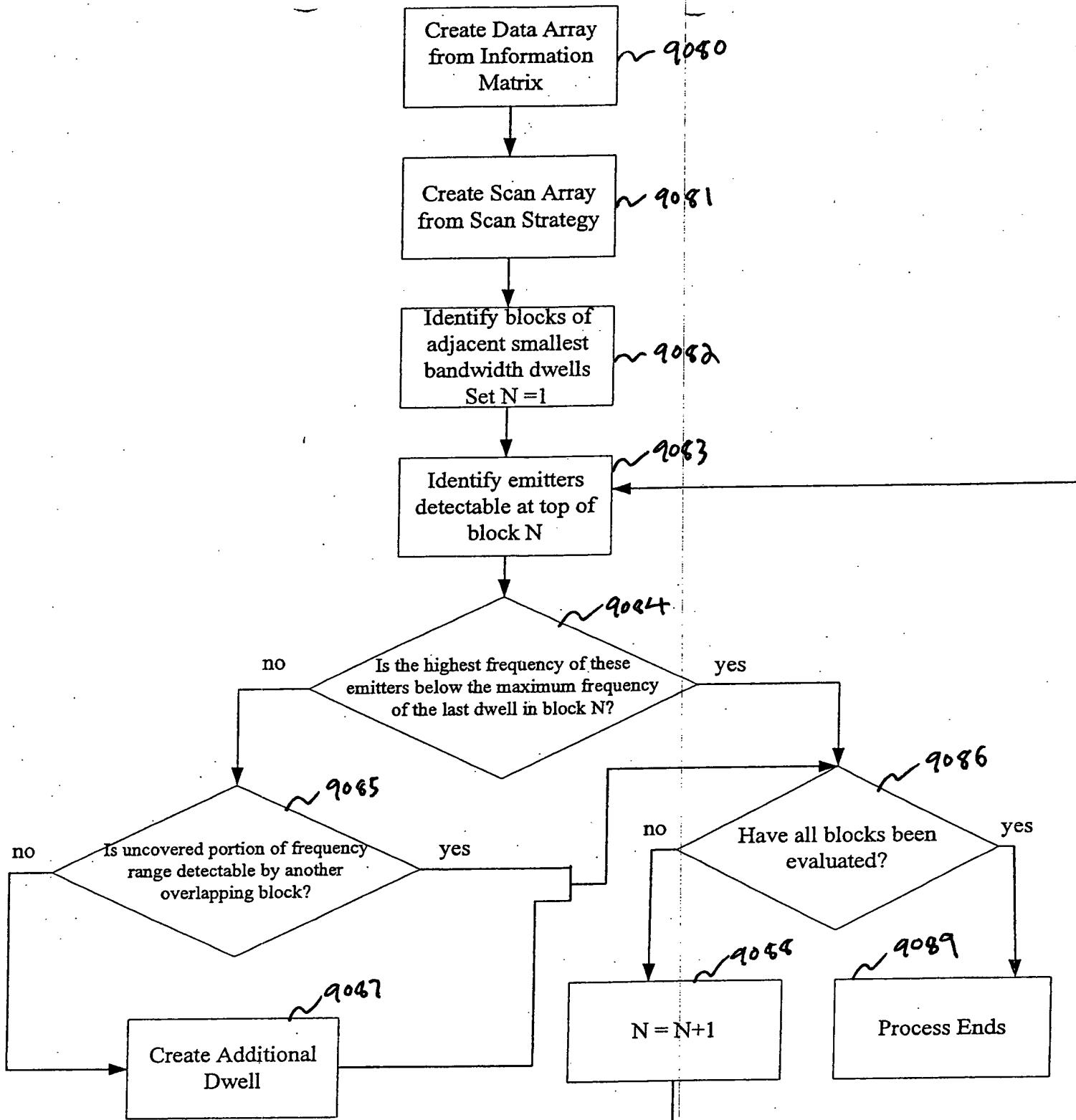


Figure 27

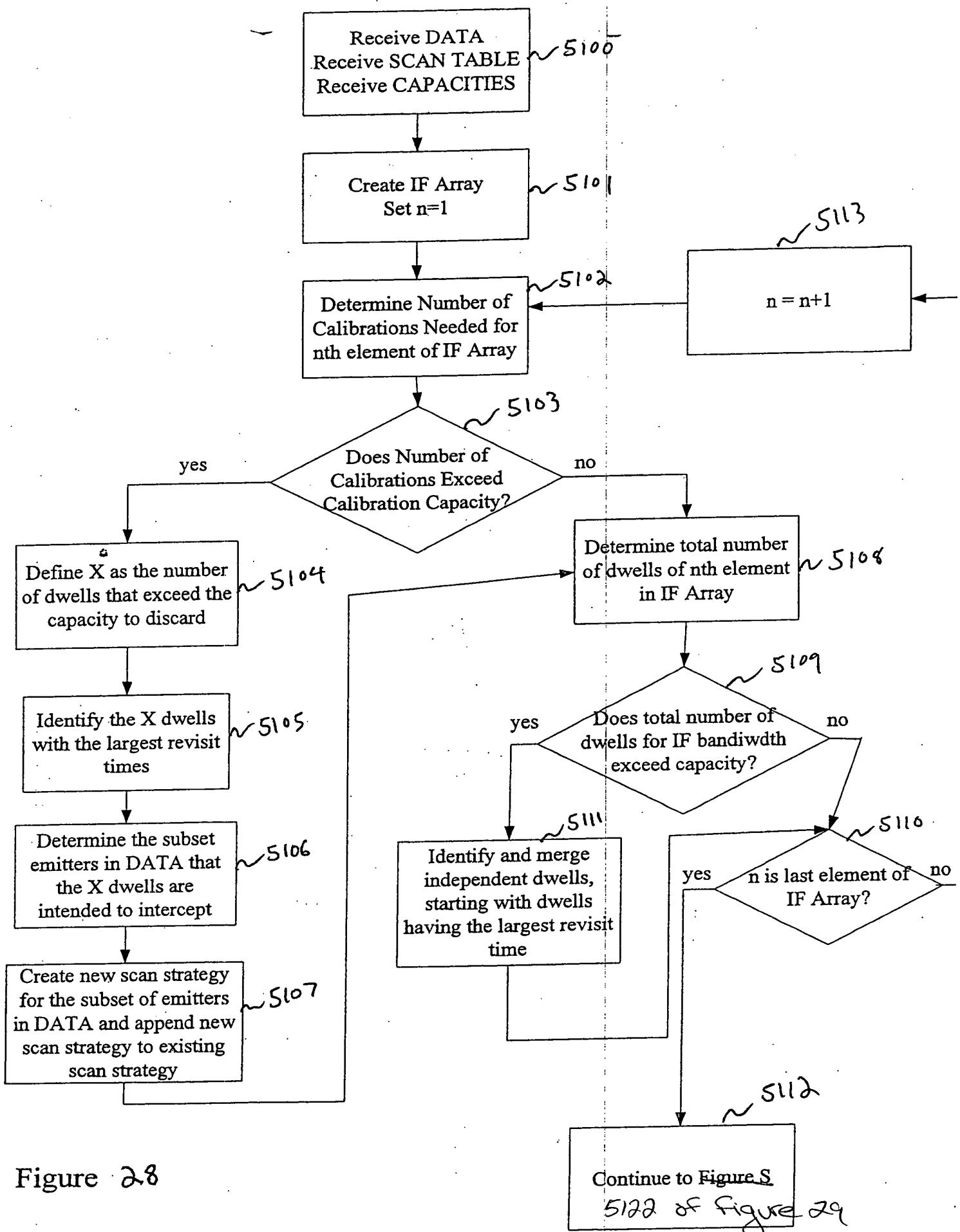


Figure 28

Continue to Figure S

5122 of Figure 29

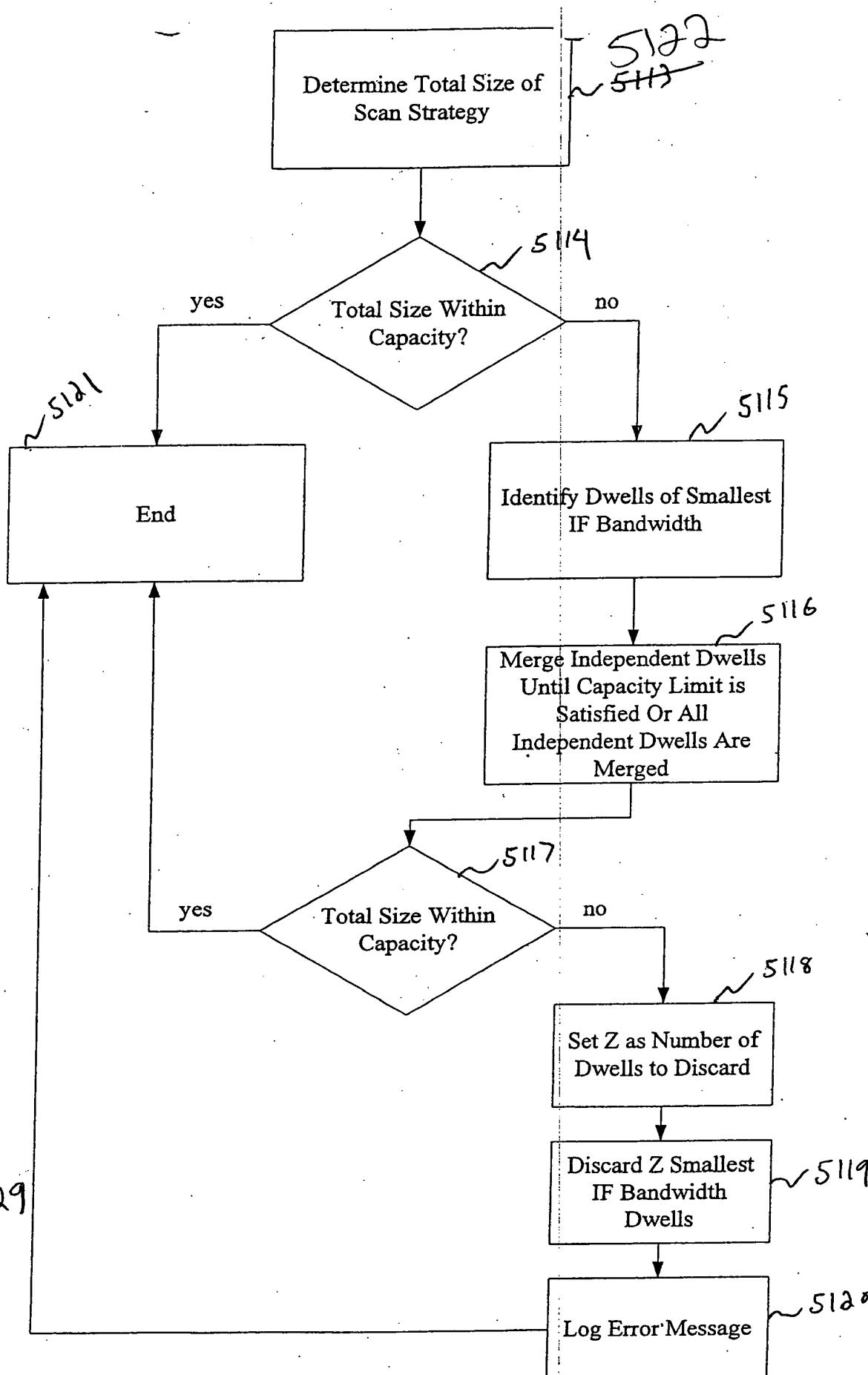


Figure 29

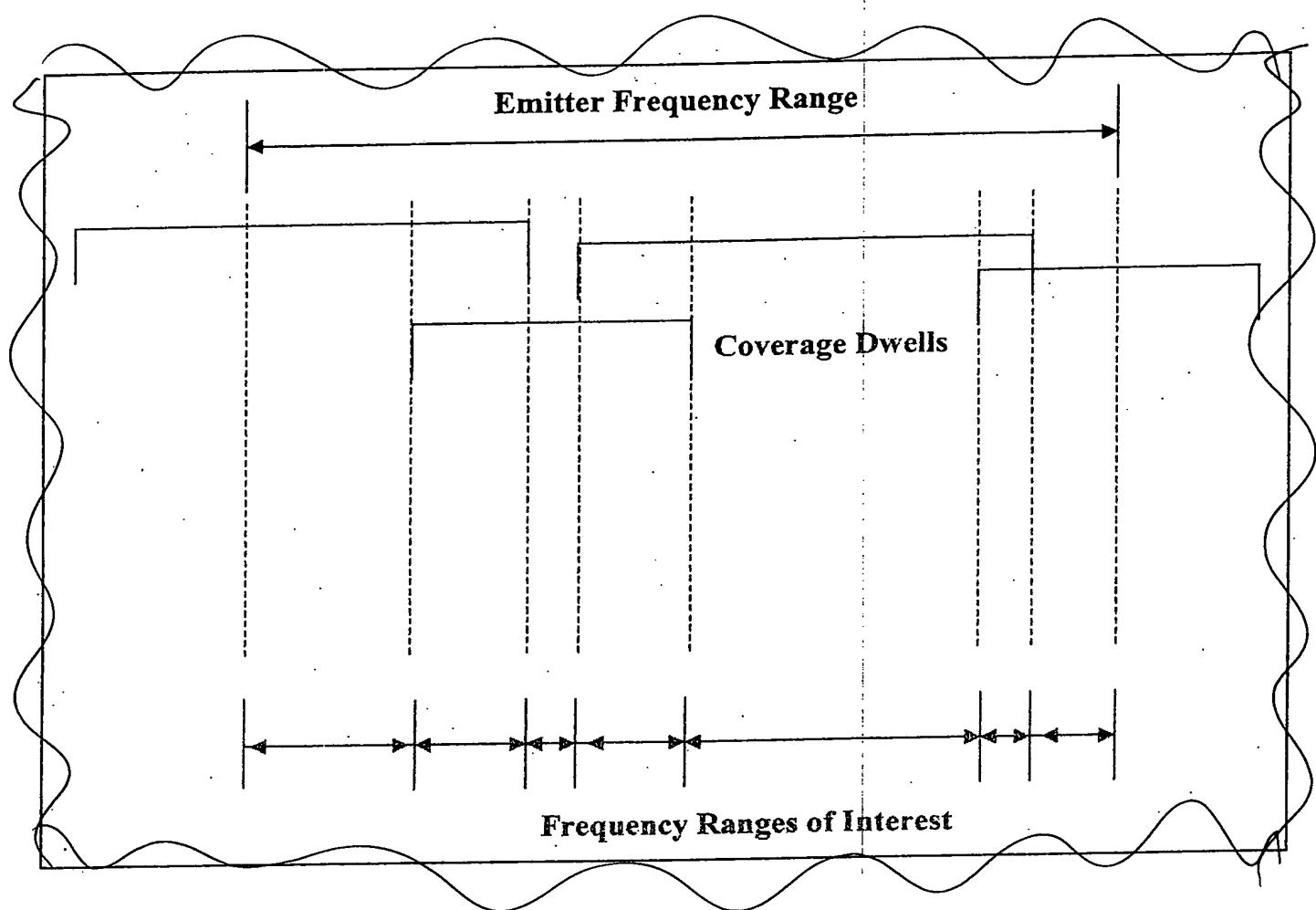


Figure 30

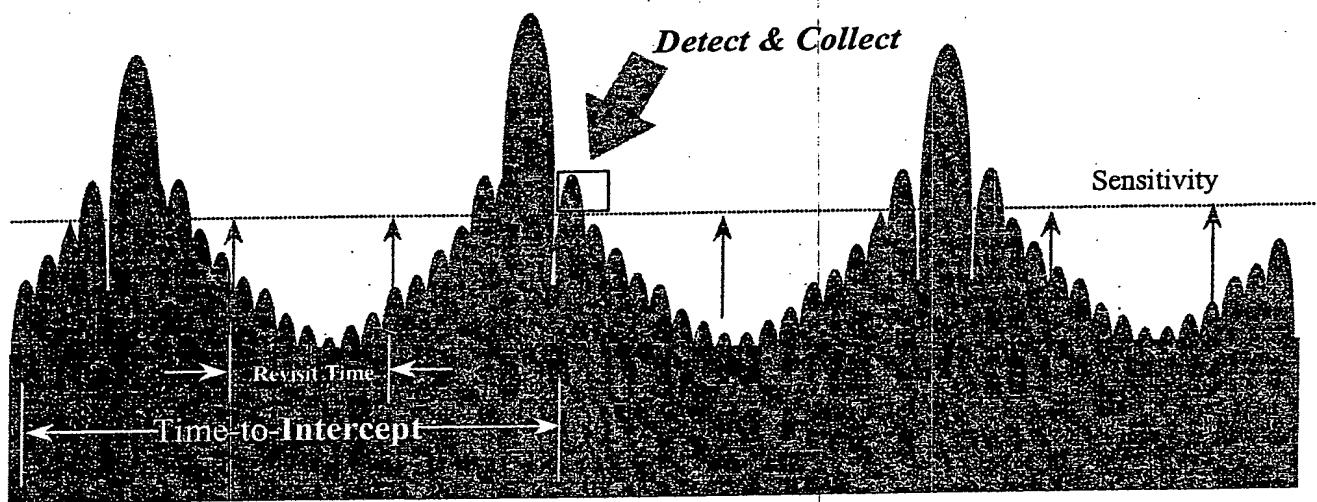


Figure 31

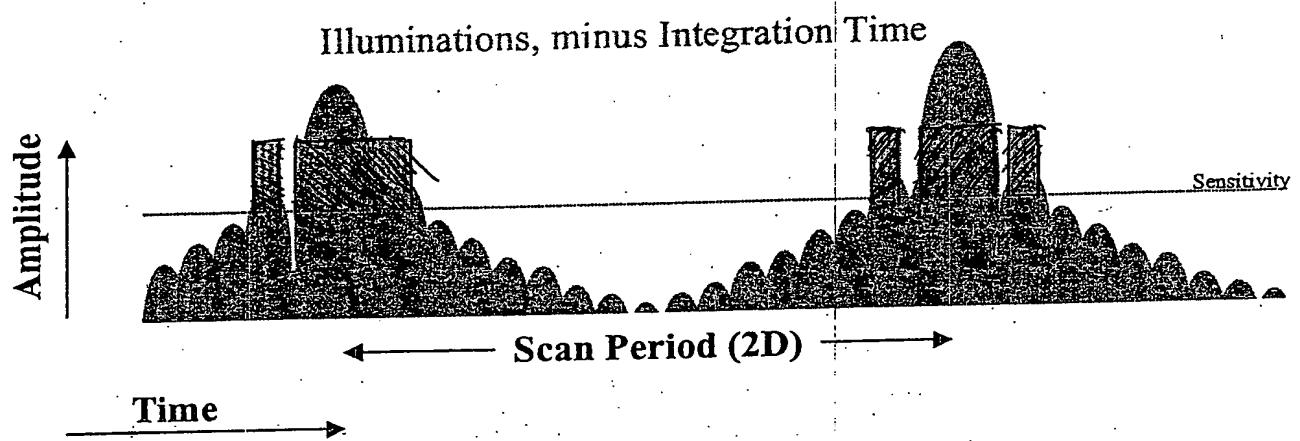


Figure 3d